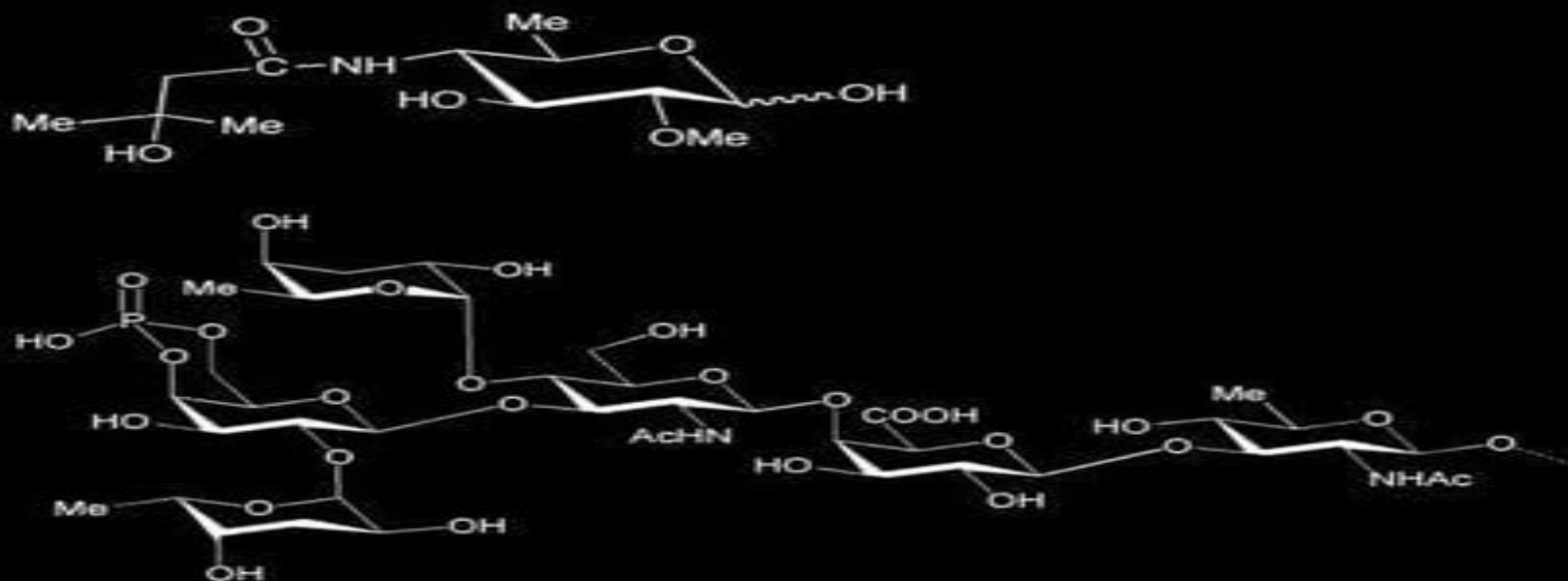


Carbohydrate Chemistry

Proven Synthetic Methods

Volume 1



Editor-in-Chief Pavol Kováč



CRC Press
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Carbohydrate Chemistry Proven Synthetic Methods

Volume 1

Pavol Kováč



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carbohydrate chemistry from the academic points of view the Carbohydrate Chemistry Proven Synthetic Methods Series provides a compendium of preparatively useful procedures checked by chemists from independent research groups

Carbohydrate Chemistry Paul Kosma, Tanja M. Wrodnigg, Arnold Stütz, 2021-01-14 Volumes in the Proven Synthetic Methods Series address the concerns many chemists have regarding irreproducibility of synthetic protocols lack of identification and characterization data for new compounds and inflated yields reported in chemical communications trends that have recently become a serious problem Exploring carbohydrate chemistry from both the academic and industrial points of view this unique resource brings together useful information into one convenient reference The series is unique among other synthetic literature in the carbohydrate field in that to ensure reproducibility an independent checker has verified the experimental parts involved by repeating the protocols or using the methods Featuring contributions from world renowned experts and overseen by a highly respected series editor this latest volume compiles reliable protocols for the preparation of intermediates for carbohydrate synthesis or other uses in the glycosciences Key Features Explains reliable and tested protocols for the preparation of intermediates for carbohydrate synthesis Offers a unique resource in glycosciences compiling useful information in one reference Presents protocols that are of wide use to a broad range of readers in the carbohydrate field and the life sciences including undergraduates taking carbohydrate workshops Explores synthetic carbohydrate chemistry from both the academic and industrial points of view Guarantees the reader a good clean reproducible experiment

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exploring carbohydrate chemistry from both academic and industrial points of view The book begins with an introductory section that offers tricks and tips collected by the series editor from many years of experience working in carbohydrate laboratories The subsequent chapters present detailed protocols on both specific synthetic transformations and the preparation of common synthetic intermediates with figures to aid in comprehension Procedures are described for regioselective benzylidene ring opening reactions oxidation reactions to provide uronic acids stereoselective alpha glucosylation reactions and more Protocols for synthetic intermediates of general utility include 3 4 6 tri O acetyl d galactal phenyl 4 6 O benzylidene 1 thio d mannopyranoside 1 2 anhydro 3 4 6 tri O benzyl d mannopyranoside and methyl N acetylneuraminic acid among many others Each chapter presents in depth experimental descriptions for the reported procedures including reaction setup reaction conditions work up procedures and purification protocols The chapters also provide detailed characterization of all products and intermediates as well as copies of the ^1H NMR and ^{13}C NMR of the described products and intermediates to indicate the purity of the obtained materials and to serve as a valuable reference for future practitioners This book provides an important starting point to reliably access synthetic carbohydrate materials and as such offers a valuable resource for the synthetic organic chemistry community Through the streamlined access of well defined products it provides a thrust to the rapidly growing field of chemical glycobiology

Molecules from Side Reactions
Stefano D'Errico, 2021-01-26 The Special Issue Molecules from Side Reactions is a collection of papers reporting on the synthesis and characterization of the molecules that come from unexpected synthetic routes This is the first example of a Special Issue based on such a topic notwithstanding that all synthetic chemists have isolated a side product during a chemical reaction Instead of continuing to store the side products in the freezer I have thought to give them the dignity of publication making them available to the scientific community The short manuscripts collected here respect the principle of one compound per paper and have the purpose of preserving the molecular diversity deriving from a chemical reaction The molecular scaffolds are unexpected and intriguing and could be useful starting points or intermediates for exploring novel reactions

Methods in Carbohydrate Chemistry Roy Lester Whistler, Melville Lawrence Wolfrom, 1962 A practical bench side reference for carbohydrate chemistry *Methods in Carbohydrate Chemistry* Lipopolysaccharides Separation and Analysis Glycosylated Polymers Volume 9 presents proven techniques for working with carbohydrates in the lab Topic experts contribute insights and protocols for membrane isolation and purification glycoprotein synthesis and carbohydrate immobilization with detailed guidance on chromatographic chemical enzymatic and physical methods of separation and analysis Helpful flow charts provide easy bench side reference while proven methods allow for predictable repeatable results Anyone who encounters carbohydrates in the lab will find value in this clear practical reference

Carbohydrate Chemistry Royal Society of Chemistry, The, **Whitaker's Cumulative Book List**, 1970 *New Technical Books* New York Public Library, 1990

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